CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-01-01** **Date: 02-12-17**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing Open Gym at Yelahanka Lake in Ward No.01
Agency	:	Sri.D.K.Nagaraja, E-301/A, Ramky Utsav, 2nd Floor, Seenappa Layout, New BEL, Road, Bangalore-560094.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/76/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-17
Sample ID No	:	2017-12-01-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-12-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg, Min)	255.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-01-01** **Date: 04-12-17**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing Open Gym at Yelahanka Lake in Ward No.01
Agency	:	Sri.D.K.Nagaraja, E-301/A, Ramky Utsav, 2nd Floor, Seenappa Layout, New BEL, Road, Bangalore-560094.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/76/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-12-17
Sample ID No	:	2017-12-01-01/02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	256	256	1.7	98.3	90-100
3	20 mm	5286	5542	36.9	63.1	30-70
4	10 mm	4666	10208	68.1	31.9	10-35
5	4.75 mm	4366	14574	97.2	2.8	0-5
6	Pan	426	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-01-01** **Date: 04-12-17**

Sample ID No : 2017-12-01-01/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.23	–

Note:

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Authorized Signatory
Quality Manager

****End of Report****

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CP/TF/III

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-12-01-01** **Date: 04-12-17**
Customer	:	Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Address	:	Project Division, Yelahanka Zone, BBMP, Bangalore.
Project Name	:	Providing Open Gym at Yelahanka Lake in Ward No.01
Agency	:	Sri.D.K.Nagaraja, E-301/A, Ramky Utsav, 2nd Floor, Seenappa Layout, New BEL, Road, Bangalore-560094.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/76/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-17
Sample ID No	:	2017-12-01-01/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-12-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	88	88	8.8	91.2	90-100	90-100	90-100	95-100
3	2.36 mm	156	244	24.4	75.6	60-95	75-100	85-100	95-100
4	1.18 mm	175	419	41.9	58.1	30-70	55-90	75-100	90-100
5	600 micron	188	607	60.7	39.3	15-34	35-59	60-79	80-100
6	300 micron	165	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	145	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-12-01-01**

Date: 04-12-17

Sample ID No : 2017-12-01-01/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.9	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-11-02** **Date: 13/12/2017**

Customer : Assistant Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.

Address : Project Division, Yelahanka Zone, BBMP, Bangalore.

Project Name : Providing Open Gym at Yelahanka Lake in Ward No.01

Agency : Sri.D.K.Nagaraja, E-301/A, Ramky Utsav, 2nd Floor, Seenappa Layout, New BEL, Road, Bangalore-560094.

Customer's Reference : EE(Project)/Ynk Zone/WO/76/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-12-17

Sample ID No : 2017-12-11-02-01

Customer ID : M25 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	06/12/2017	13/12/2017	150.42 X 150.54 X 150.55	22644	8.321	455.1	20.1	20.4
2	M25 Concrete	M25	06/12/2017	13/12/2017	150.32 X 150.54 X 150.45	22629	8.343	466.2	20.6	
3	M25 Concrete	M25	06/12/2017	13/12/2017	150.42 X 150.54 X 150.45	22644	8.325	461.9	20.4	

Note:

The results pertain to the samples received and tested.
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Samples will be disposed after 30 days from the date of issue of test certificate

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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